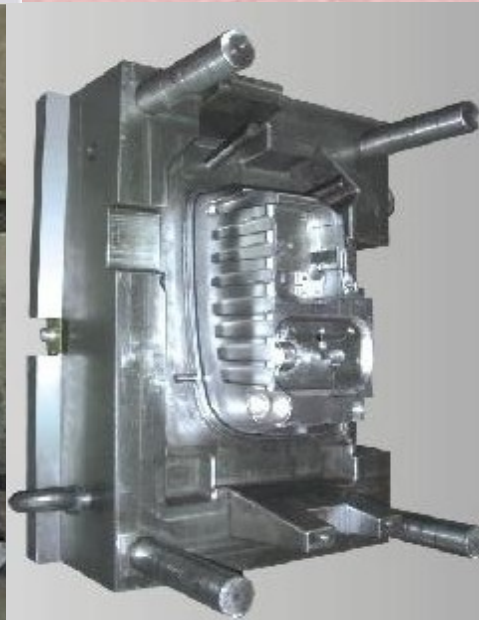
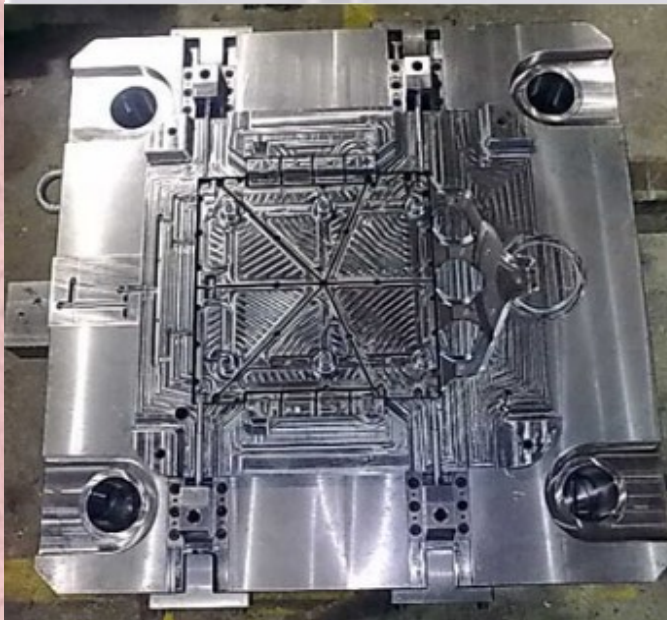




**NASA
METAL
TREAT**

ONE STOP SOLUTION FOR YOUR STEEL



WHAT WE HAVE?

VACUUM HARDENING FURNACE



VACUUM TEMPERING FURNACE



WHAT WE ARE CAPABLE OF?

We are capable of proving you :-

High Pressure Vacuum Hardening (12, 10, 6, 5, 2 Bars) and Vacuum Tempering. High pressure vacuum hardening is the highest standard technology when it gets to hardening of tool steel, high speed steel and special steel. It is environment friendly and cost effective due to modern program controllers which ensure complete reproducibility and excellent process control.

We provide Heat Treatment process like:

- » Vacuum Heat Treatment
- » Solution Annealing + Ageing
- » Stress Relieving (Vacuum)
- » Vacuum Annealing
- » Cryogenic Treatment (Liquid Nitrogen)
- » All types of Coatings for Tools

- » We also provide All types of Cutting Tools.
- » We arrange raw material as per customer requirements.

ADVANTAGES OF OUR VACUUM TREATMENT

- » VACUUM TEMPERING FURNACE ENSURING LEAST AND MINIMUM DISTORTION.
- » SCADA CONTROL ENSURES PRECISE CONTROL OVER PROCESS.
- » NO DISCOLORATION AS THERE ARE NO IMPURITIES IN FURNACE ENVIRONMENT FOR MATERIAL TO GET SCALE OR TO GET DISCOLORED.
- » EXCELLENT PLC CONTROL OF THE PROCESS FOR RELIABILITY AND REPEATABILITY .
- » NO RUST BECAUSE OF ABSENCE OF OXIDIZING GASES.
- » LEAST DISTORTION DUE TO VACUUM FURNACE ENSURING UNIFORMITY OF TEMPERATURE RESULTING IN BETTER TOUGHNESS & DENSE MICROSTRUCTURE.
- » EXPERIENCED AND WELL TRAINED STAFF FOR PROCESSING AND QUALITY ASSURANCE.
- » TO PROVIDE BEST QUALITY AND SERVICE, WE FOLLOW NADCA STANDARD FOR ALL OUR VACUUM TREATMENTS.

WE TREAT FOLLOWING MATERIALS:-

1. Cold Work Steel - D2, K110, K340, Sliepner, SLD Magic, SV 21
2. HPDC Steels - H13, H11, O.S., Dievar, 1.2344, DAC-S, DAC-MAGIC, YXR-33, W302, W360, W403
3. Plastic Mould Steels - Stavax, M310, M333, 1.2083, 1.2316, P20, M303
4. Special Steels - OHNS, Inconel 618, 725
5. High Speed Steels - M2, M35, M42, ASP23
6. Special Alloy Steels - SS410, SS420, SS440C

FURNACE SPECIFICATONS:

Particulars	Vacuum Hardening	Vacuum Tempering
	Specification	Specification
Furnace manufacturer	Laxmi Vacuum	Laxmi Vacuum
Type of Furnace	360° Nozzle Quench	Box Furnace
Size of Heat Box (WHD)	600x600x900	600x600x900
Type of control system	AutWider omated Process (PLC+Scada)	AutWider omated Process (PLC+Scada)
Inert Gas	Nitrogen	Nitrogen/Argon
Maximum Vacuum(mbar)	5×10^{-2} mbar	5×10^{-1} mbar
Max. Quench Pressure	12 bar	2 bar
Max. weight per cycle (kg) – net	600 kg	600 kg
Martempering / Interrup-tion quenching possible (Yes/No)	Yes	Not Applicable
Maximum temperature	1250° C	700° C

Works Address: Nasa Metal Treat

Plot No. H29, PMA Automotive Premises, MIDC Ambad, Nashik.

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